Title (en)

REFRIGERATION OF A FOOD TRANSPORT VEHICLE UTILIZING LIQUID NITROGEN

Title (de)

FLÜSSIGEN STICKSTOFF VERWENDENDE KÜHLUNG EINES LASTFAHRZEUGES FÜR NAHRUNGSMITTEL

Title (fr)

REFROIDISSEMENT D'UN VEHICULE DE TRANSPORT ALIMENTAIRE AVEC DE L'AZOTE LIQUIDE

Publication

EP 1252471 A4 20040317 (EN)

Application

EP 01904879 A 20010117

Priority

- US 0101440 W 20010117
- US 48870500 A 20000121

Abstract (en)

[origin: WO0153764A1] The atmosphere of a refrigeration space of a food transport vehicle is controlled by cooling the interior space of a preselected temperature by spraying liquid nitrogen within the space. After discontinuing the spraying, liquid nitrogen is conducted through a heat exchanger which extends across a portal communicating the space with ambient air. A ventilator (50) forces air through the portal (42) and the heat exchanger and into the space, whereby the ambient air is cooled and displaces gaseous nitrogen from the space. This creates a cold breathable atmosphere within the space to enable food to be loaded or unloaded. During the loading/unloading operation, liquid nitrogen can be conducted through an evaporator (40) disposed in the space to maintain the temperature in the space.

IPC 1-7

F25D 29/00; F25D 3/10; A23L 3/36; A23L 3/375; B60H 1/00; B60H 1/32; B60P 3/20

IPC 8 full level

F25D 11/00 (2006.01); **A23L 3/36** (2006.01); **A23L 3/375** (2006.01); **B60H 1/00** (2006.01); **B60H 1/32** (2006.01); **B60P 3/20** (2006.01); **F25D 3/10** (2006.01); **F25D 29/00** (2006.01)

CPC (source: EP US)

A23L 3/36 (2013.01 - EP US); **A23L 3/375** (2013.01 - EP US); **B60H 1/00014** (2013.01 - EP US); **B60H 1/3202** (2013.01 - EP US); **B60P 3/20** (2013.01 - EP US); **F25D 3/105** (2013.01 - EP US); **F25D 29/001** (2013.01 - EP US); F25D 2317/0684 (2013.01 - EP US); F25D 2700/02 (2013.01 - EP US)

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